M&S Reuse Breakout Session

Objective:

Identify issues and actions related to interoperability

and reuse of modeling and simulation resources

Presentations:

Presenter #1 BG(P) William Bond

Presenter #2 CW4 Mike Durant

Presenter #3 COL Lou Gelling

Presenter #4 Mr. Warren Katz

Breakout Group Composition:

Government: 22

Industry: 20

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- **Issues for Leadership Consideration**

1. To facilitate the reuse of M&S data resources, a DoD-wide consensus needs to be reached on the standards for representing the synthetic environment.

   · Army standards need to be developed first before coordination with DMSO and the rest of DoD can take place.

   · Data representations for terrain, threat, imagery, semi-automated forces, 2D/3D models, meteorology and oceanography, etc. will need to be addressed.

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- **Issues for Leadership Consideration Con't**

3. Open standards for CAD/CAM data representations need to be mandated by DoD to facilitate interoperability of models.

4. The reuse of existing COTS/GOTS software applications, databases and models and interoperability among these modeling and simulation tools and data resources needs to be promoted by acquisition executives.

- **To facilitate the discovery of what resources already have been developed, producers need to improve their**

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- **Key Points Discussed:**

- **Issues for Leadership Consideration Con't**

5. **Even if standardized synthetic environmental standards and data interchange formats are adopted, correlation of distributed scene visualizations may still pose a problem due to the fact that the proprietary run-time databases employed by the various manufacturers of Image Generators produce slightly different visual outputs.**

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- **Recommendations**

1. To facilitate the discovery and reuse of models and simulation databases, producers need to be encouraged to post metadata on modeling and simulation resource repositories maintained by AMSO and DMSO.

2. The DoD should consider providing seed-funds to facilitate the development of interoperability standards between CAD/CAM tools and virtual/constructive modeling and simulation environments.

3. The DoD requirements/acquisition process should first take advantage of the existing COTS/GOTS capabilities that may only provide the 80% solution before any new initiatives to develop tools, models, and databases are undertaken. To make up any deficiencies, SMART should

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- **Recommendations Con't**

4. SMART and it's use needs to be addressed at Milestone 0, and then reviewed as each subsequent Milestone Decision Point. Need full commitment on

5. To help overcome the "not invented here" syndrome to strongly encourage the reuse of software in both source selection and in Award Fee determination.